

ILM Management Design Review

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Overview



- **Driving Requirements**
- **Software Design**
- **User Interfaces**
- **OO Design Models**

ILM Management Driving Requirements

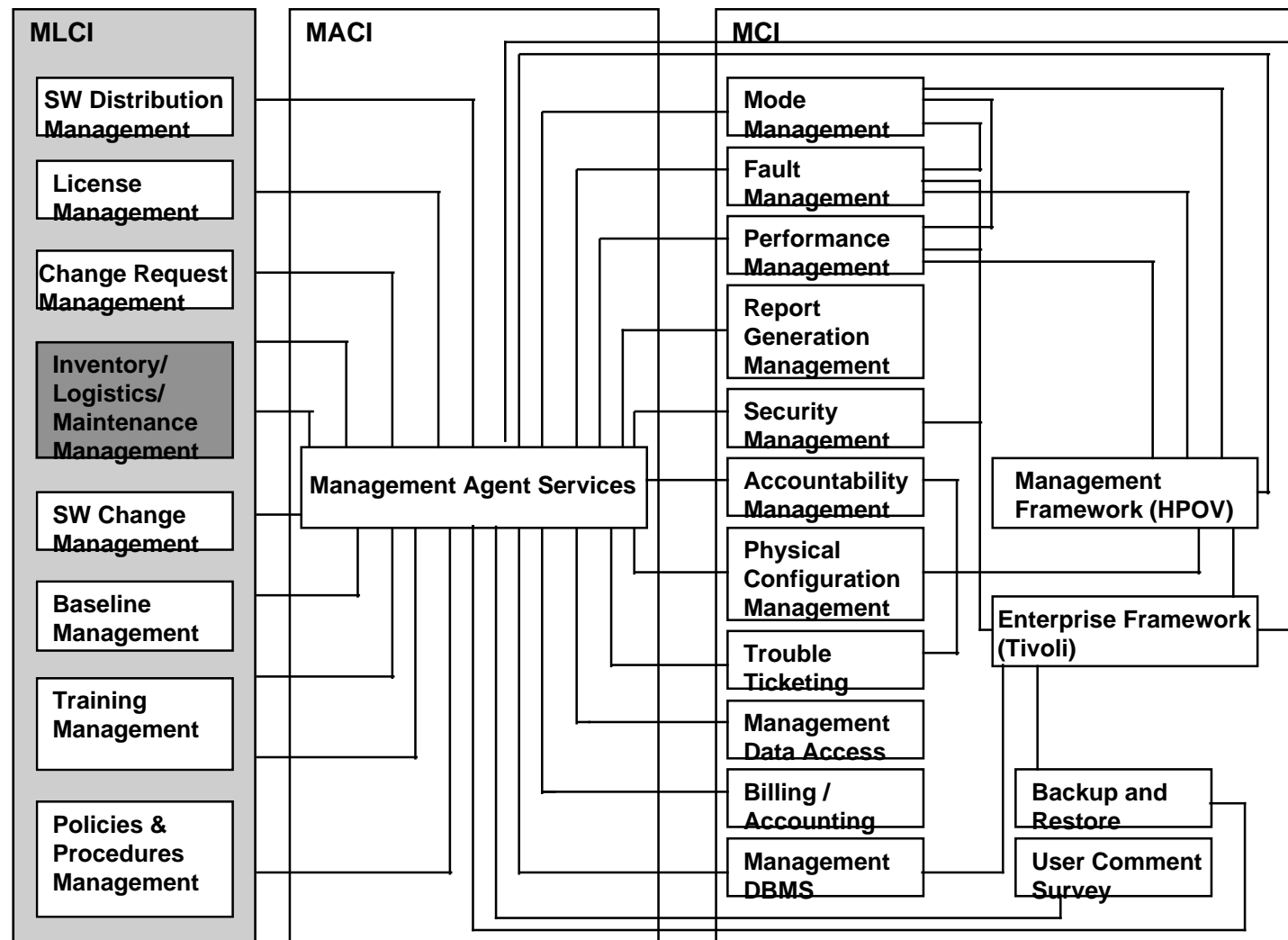


- **General Functional Description:**
 - Allows access to data on inventory, logistics, and maintenance.
 - Allows the tracking of supplies, consumables, and line replaceable units (LRUs).
 - Provides an interface to the Baseline Manager (XRP-II).
 - Provides an interface to Trouble Ticketing (Remedy).
 - Provides an interface to Training Manager.
 - Provides an interface to the Resource Planner.
- **New Release B Features:**
 - All functionality for ILM is new to Release B
- **IDR Design Change:**
 - Inventory/Logistics/Maintenance combined into one design as opposed to 3.

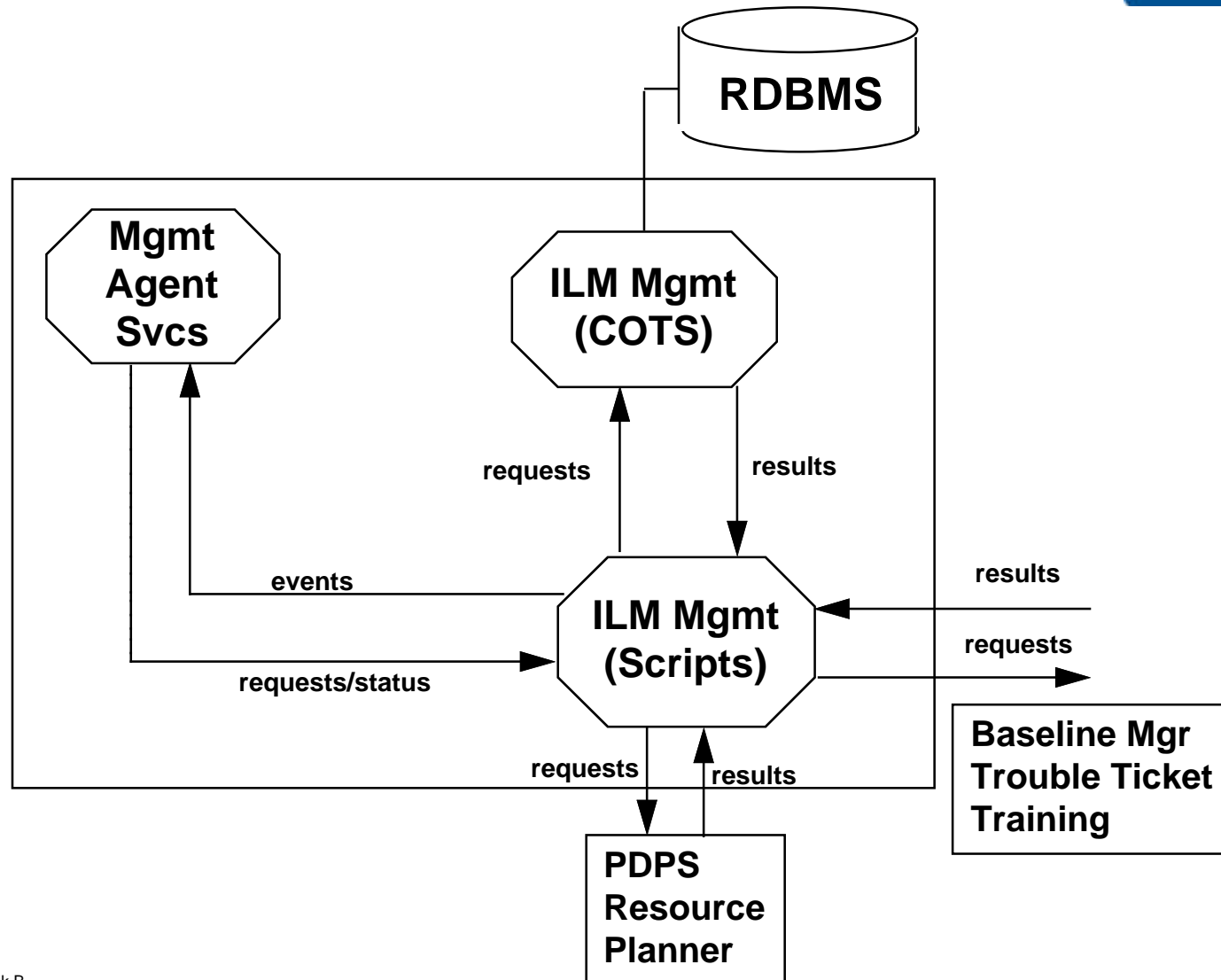
(DID 305-CD-029-002, Section 5.11)



MSS Software Architecture Overview



Inventory/Logistics/Maintenance Software Architecture



User Interface



Overview:

- **Inventory/Logistics:** Through the COTS, the user will request information on any item in the ECS inventory (whether equipment end-item, component, spare part, consumable, or LRU) and view /print the associated data.
- **Maintenance:** Through the COTS, the user will request information on any work order open and view the associated data. Also, the user will be able to enter information into the work order.



Object Model

The following object models will be reviewed:

<u>Model Name</u>	<u>Document Reference</u>	<u>Diagram Reference</u>
ILM Manager	DID 305-CD-029-002	5.11-2



Dynamic Model

The following event traces will be reviewed:

<u>Event Trace Name</u>	<u>Document Reference</u>	<u>Diagram Reference</u>
Updating the Status of an ECS Asset	DID 305-CD-029-002	5.11-3
Perform Maintenance	DID 305-CD-029-002	5.11-4



Event Trace 1

Updating the Status of an ECS Asset

Scenario:

This scenario traces the actions associated with updating the status of an ECS asset.

Assumptions:

The M&O Staff has removed an asset (a CM item) and wishes to update the inventory records.

Preconditions:

The M&O Staff requests information on a particular item for modification.

Postconditions:

The selected item reflects the desired information - status change in the inventory records.



Event Trace 2

Perform Maintenance

Scenario:

This scenario traces the actions associated with an M&O Staff member performing a (corrective) maintenance action.

Assumptions:

A trouble ticket has been created for the (corrective) maintenance action.

Preconditions:

The trouble ticket service notifies the ILM Manager of a (corrective) maintenance action to be performed.

Postconditions:

The trouble ticket has been closed, and the spares inventory updated to reflect the removal of an item used to perform the (corrective) maintenance.